



50 Years of DX-cellence

# BULLetin

No. 6

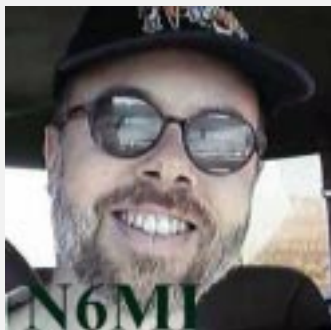
July 1998

## Next Meeting

7:30 PM, Thursday, July 9<sup>th</sup> at Jun's Electronics, 5563 Sepulveda Blvd. (Exit the San Diego Fwy (405) at Jefferson and proceed east to Sepulveda Blvd.)

## July Program:

### Mike-Ike and His Traveling Circus



...and the Lord spoke unto Scott and the Lord sayeth: "Wait not for the mountain, but verily, go ye onto the mountain

with ox cart and mule and lay thy issue upon many lands, and thou wilt feel the fatigue of battle and the jealousy of afflicted lowland peasants." And so did Scott build an ark and he went upon the mountain, and it was good. (Attend this meeting or burn in hell.)

## Bolnick Saves The World

By Ragnar Pflæg, BULLetin Staff Writer

Imagine that tower, proud in your yard, the neighborhood kids frolicking in the pool below, Iris basting a chicken on the patio barbecue. In the pulleys, the cables, the braces, iron-eating bacteria madly feasting.

Could the family dog end up wearing your Gem Quad; your treasured lawn flamingo impaled by your Mosley?

In just a short time, Skip Bolnick, KJ6Y introduced eager June meeting attendees to the dangers of corrosion, erosion and overloading. He passed around examples of worn bearings and pulleys and showed antenna installations large and small. Skip does all the work himself, his "bible" an ancient, well-thumbed text on leverage by Sir Isaac Newton.



## What the Hell is the Board Up To?

(See Page 8)



## Death in Iberia

By Al Friedman, K6YRA

On a whirlwind tour of Spain, Portugal, Gibraltar and Northern Africa, Bunny, N6OVX and Al, K6YRA visited congenial fellow hams in action. Paco, EA4BT and Jose, EA4BPJ took them to visit the EA4ML club station in Madrid, where the WPX contest was in full swing. The station is in a small metal building on the outskirts of a soccer field, antennas mounted atop light structures. Inside the hot, narrow house, the air was choking



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## Packet Spot Iron Cage Free-For-All Derby

by Harvey Shore, K6EXO



**L**ook at the scores this month: A new contender for the derby winner may be making his move. Go get em!

A total of 4978 spots were recorded this month. Of those 1405 were made by club members. I expect that as activity increases into the fall we will soon have 10,000 spots per month reported.

By the way, a reminder: only SCDXC members in good standing are listed in these reports. If you are a member, and you have posted spots, and you are not listed — please either send me a packet message or e mail me at af006@lafn.org. I will check it out and fix the problem.

We hope you are having a great Summer and will be looking for you at the bash and the pizza party.

Spotter	Spots	Score
N6JZ	503	907
N6RT	264	632
WA6TLA	41	109
K6CU	55	105
W7RF	14	-16
W6AUG	59	99
W6LAX	47	81
KK6T	25	79
WU6T	32	71
KG6OK	31	66
W6YY	35	59
K6YUI	26	58
KR6C	29	56
W6KK	43	50
K6FG	17	42
W6EA	16	34

The Deadline for the August **BULLETin** will be August 1<sup>st</sup>  
Please submit as early as you can!

Spotter	Spots	Score
K2PLF-6	25	33
W6SMD	13	33
N6KZ	22	31
K6YRA	10	31
W6EJJ	7	24
NQ6N	7	22
K6WS	12	18
W6RT	12	18
KC6T	13	17
K6RO	5	15
K6FR	3	14
N6OU	6	11
K6GXO	4	11
K6OHM	4	11
KF6HI	2	-4
W6AQ	2	-4
W6FW	2	-4
W3SE	2	-1
KJ6ZH	2	7
W6SR	1	7
N6IC	5	5
K6OJ	1	4
AC6RN	2	2
W6RW	2	2
K6EXO	1	2
KC7QN	1	1
NK6A	1	1
W6BL	1	1

(The Packet Derby automatically assigns points to stations spotting DX on the packet network. Scoring updates are available on the club web site. High-point winner will receive a prize...ed.)

### 1998 Programs Harvey Laidman, W8DX



**I** shouldn't, but, garsh, I guess I'll let you in on some of our future programs: The August meeting will be held at Shakey's — the traditional pizza party. The program will be provided by Tom, K6ZT, who has done it all when it comes to phased verticals. Tom was recommended by Art, W6EA, who says it's a "gotta see." See? Doug, KB6YZD of Alinco will present the Alinco HF rigs at the September foray. These baby beauties

are just right for a "dpxpedition in a suitcase" and are reasonably priced.

Our best programs come from members who call me all excited and that there: "I just saw a great show! Can you get 'em for the DX Club?"

Thanks to Art, W6EA, Arnie, N6HC, Chuck, KR6C, Skip, KJ6Y et al. Keep it up, I've got several more months to fill.

Here and now, I must tell you: *I am not your mother*. Each month, I have to peck around like a mother goose getting her flock to fall in line. No more kvetching for ol'harv. If I don't get your **BULLETin** submission, your prize donation, your want ad, your latest accomplishments, your whatever — No, my name ain't goin' in the Farmer's Almanac under "Kvetch."

But do look under "cliché."

I don't like to get too personal here in the **BULLETin**, but I'm working on the sad and evocative tale of my efforts to get on the air from my new digs — a pristine and stodgy apartment building here in Encino. Stay tuned. A stitch in time and don't knock it if you ain't got it.

...Harvey, W8DX

### The N6HC Summer Bash and Open House

Get ready! It's coming **Sunday, August 9<sup>th</sup>, 11:00AM to 4:00PM** and here's how to get there:

First, find the 55 freeway. Exit at Chapman Avenue East. Continue two miles and turn right on Crawford Canyon. Follow Crawford Canyon until it ends at Newport, about 1.5 miles. Left on Newport, two blocks to right at Cowan Heights, one block to right at Skyline, .6 mile to right at Hunting Horn to 10931 Hunting Horn Drive, Santa Ana 92705. Telephone: (714) 573-2965.

Bring a suit and towel — if weather permits.

(Continued on page 3)

## MINIPROP PLUS Predictions

by Shel, W6EL



These MINIPROP PLUS predictions for the five prime THF bands show the times when propagation is expected to be best from Los Angeles to several locations that are expected to be active during the coming month. Other times are possible, but with weaker signals or lower probability. Openings are not expected on bands that are not listed. A solar flux of 108, corresponding to a sunspot number of 60, and an average geomagnetic field are assumed. Sunrise/sunset times are at the DX location. All times are UTC.

### DX Location:

TK Corsica - 7/2 to 7/9

Beam 36 degrees

Sunrise/sunset (on 7/16) 0407/1853

SV5 Dodecanese - to 7/31

Beam 27 degrees

Sunrise/sunset (on 7/18) 0310/1722

T8 Belau - 7/26 to 8/2

Beam 285 degrees

Sunrise/sunset (on 7/30) 2043/0906

ET Ethiopia - 9/18 to 9/27

Beam 31 degrees

Sunrise/sunset (on 9/23) 0316/1516

VK9W Willis - to 12/31

Beam 257 degrees

Sunrise/sunset (on 10/1) 1946/0753

### Band/Best Times:

20: 0130-0630.

20: 0030-0600.

80: 1100-1300.

40: 0900-1300.

20: 0700-1630.

15: 2100-0630.

40: 0200-0300.

20: 2230-0130 and 0330-0500. Also long

path 1330-1530.

15: 1600-2400.

80: 0930-1300.

40: 0730-1500.

20: 0530-1700.

15: 2000-0400.

10: 2100-0130.

## The N6HC Summer Bash and Open House (Continued)

Your "Triptic" courtesy SCDXC BULLetin:

<u>From:</u>	<u>Turn:</u>	<u>To:</u>
55 Freeway	Exit	Chapman Ave. East
Chapman Ave. East	Right	Crawford Canyon 1.5 Mi.
Crawford Canyon	Left	Newport 2 Blocks
Newport	Right	Cowan Heights 1 Block
Cowan Heights	Right	Skyline .6 mile
Skyline	Right	10931 Hunting Horn



## Another Letter From Hell

Dear Smutmongers,

Oh, you sit there all happy and smug with your big cigars and radios and do you care how you are corrupting the youth of this world? Don't answer that, I'll tell you. In a word: No, siree bob!

Floyd put your nasty rag on the entertainment unit, so I guess he shares one of the half's of the blame. You get the other two.

Anyhoo, Egma, Junior, that's the little squirt, thinks it's the TV Log from the Safeway, and she up and finds your obscene "Hunks in Trunks" department. That's when it started.

Egma, Junior, has fallen heads over heels for one of your musclemen. I'm not sure which one, because E., Jr. isn't making much sense these days, but it's something about a "white hat" and "love handles." She keeps humming "Chicago, that toddlin' town." She has a big craving for

(Continued on Page 7)

The  
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Dot... dot... dot...

By Guglielmo Pookah, E1EIO



The food tab at Visalia amounted to **\$32,000**. Heard that **Don Bostrom, N6IC** is still **waiting for the check...** all them engineers and still couldn't figure out the tip... The **Pookster** is p-r-e-t-t-y fed up with all the **modesty** in the DX club. All this "aw shucks" and thumbnail chewing makes me the "**Pukester**." The **SCDXC martyr society** hides their accomplishments, but I'm here to **flush them out like a stuffed sewer line...** Groan... Did I hear that **N6QQ** finally bounced something off the **moon**? His **property tax bill**?... Did **Prez K6NDV** take the **40 meter single band honors** in the JA international DX contest and if so, does Will have to **eat a live fish**?... **Jim, N6KZ** performed notably in the **CQWAZ** contest – not through with you yet, **Jim**... **Rich, WU6T**, just confirmed **325 Mixed and 100 on RTTY**. "Not enough **WD-40** in the world to quiet that **model 15**,"



sez **Rich**... It took a **bunny hug** to squeeze this data out'a a "**Mr. Modesty**" himself, **Larry, K6RO**

(Rumor has it he sleeps in a pair of **Mr. Goodwrench** coveralls.): In the **ten meter contest**, "**Laidback Larry**" ranked #11, #3 in the **USA**, low power, #1 in **6<sup>th</sup> district**... **Bruce, WA7BNM** placed in the 160 test, using his famous **balloon**.

We hear the balloon fell into a **car wash**, wrapped up on one of the brushes and **sucked Bruce's FT1000 right out the window**.

Or not. Not finished with you, **Bruce**, either... Like I said, **Jim, N6KZ** got the **A-1 operator** award at the meeting (See photo). I got news for you, I saw

him drink a pitcher of **Shakey's lemonade** and he turned **green** and grew **hair on his forehead**. Heard him **howling** on 17 meters... It's a big **secret**, but the **Pook-ah** has discovered that **Bruce, WA7BNM** is publishing a "**Contest Calendar**" on the internet. Guess he doesn't want us all **buggin'** him with **dumb questions** like "duhhh, what time is the **Albanian Sprint**?"... And the worst of all, **Harvey, W8DX** submitted the last card for five-band **WAZ – 5A2A** on **80 meters**. Only took about **twenty-one years**, 'bout the same time it took him to get out of **eighth grade**... Late-breaking newz, **N6KZ, N6FH** and crew won't get to **NA066** for the **IOTA contest**. Some kinda' **goat ceremony**, we hear... Whew, **Dot's da lot!**

...Gugli

(The *BULLETin* is not responsible for Pookah's alleged observations. Gugli's portrait by 'Drew Duncan exclusively for the *SCDXC BULLETin*.)



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# Death in Iberia

(From Page 1)

with cigarette fumes and the din of battle. Later, EA4EU, picked up the Friedmans and his daughter walked them down to the wax museum where they witnessed the gruesome death of a brave bull-fighter, gored in the left eyeball.

The swift tour bus tore through Toledo, Cordoba, Grenada, Gibraltar and Costa del Sol. The weary travelers needed a day of rest, but instead, visited Tangier (CN2) by hydrofoil. In the late afternoon, our heroes again boarded the hydrofoil and blasted back to Africa, to Ceuta (EA9).

From the deck of the hydrofoil,

Al called Juan, EA9IE on two meters, saying that he and Bunny had one night and one day to visit. As the ferry slid into the dock, Juan and Pilar (EA9AM) were waiting.

The late ferry was perfect timing for the usual ten PM dinner hour and local fish and ice cream fare.

The Mediterranean wind blew through the window early the next morning. Al was up to Juan's radio room calling "CQ W6 from EA9/K6YRA." Though it was midnight in California, one hour later there were 40 "Q's" in the log: 18 W6's, VK's



Al, K6YRA at EA9IE. Just some of the awards are visible.

JA's, Europeans, etc.. The "Hawk," N6RT, tracked EA9/K6YRA down and announced him on packet. Dan, W7RF and Art, W6EA were particularly outstand-

(Continued on Page 6)



EA9IE, Juan, with dinner

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## DX Accomplishments

(return to: Bruce Horn, 4225 Farmdale Ave., Studio City, CA 91604)

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Call \_\_\_\_\_ Name \_\_\_\_\_ Date \_\_\_\_\_

Please complete the following based on your **confirmed**, mixed-mode country or zone totals:

DXCC Totals: Active Countries (329 max) \_\_\_\_\_ Total Countries (including deleted) \_\_\_\_\_

Are you currently on the Honor Roll ? ☐ Yes ☐ No 5BDXCC ? ☐ Yes ☐ No

Low Bands (Active Countries Only): 160-meters \_\_\_\_\_ 80-meters \_\_\_\_\_ 40-meters \_\_\_\_\_

WARC Bands (Active Countries Only): 30-meters \_\_\_\_\_ 17-meters \_\_\_\_\_ 12-meters \_\_\_\_\_

WAZ Basic Award (40 Zones) ? ☐ Yes ☐ No

Confirmed Zones: 160m \_\_\_\_\_ 80m \_\_\_\_\_ 40m \_\_\_\_\_ 30m \_\_\_\_\_ 20m \_\_\_\_\_ 17m \_\_\_\_\_ 15m \_\_\_\_\_ 12m \_\_\_\_\_ 10m \_\_\_\_\_

# KH6BZF REPORTS

## CORONAL MASS EJECTION (CME)

### Special Report to SCDXC BULLetin

Coronal Mass Ejections (CME), like those which occurred in early May this year, sent massive amounts of particles into the Solar Winds at speeds in excess of 500km per second. By the way, on the 2 May, an X1.1/3Bright followed by a X2.7/1Normal flare occurred in the southwest quadrant of the solar disk from region RGN 8210. Depending just where on the Solar disk this event occurs, solar matter spins off the Sun in a spinning motion, much like a propeller motion and is whirled into space. Those rapid solar winds bring those particles toward the Earth effecting our Geomagnetic Field with a variety of events, i.e. Satellite Proton Event (SPE), Radio bursts, Shock waves, electron bombardment, Shortwave Fade-outs (SWF), Polar Cap Absorption (PCA), and radio blackouts and Aurora with northern lights occurring at both pole regions. These particle bombardments at both polar regions are both equal and opposite in patterns. Particle bombardments collide with hydrogen atoms releasing photons of red light. When they collide with oxygen atoms photons of green light are released. Remember from high school physics that when electrons fall from one atomic orbit to another, photons of light are released. This intense pyrotechnics into our upper atmosphere is something to see and experience. More on these solar events in later columns.

**Highlights:** JULY 1998: For the VHF/UHF amateurs.

\*Full Moon: 28th of July, 1998

#### Major Meteor Activity:

<u>Radiant</u>	<u>Duration</u>	<u>Maximum</u>
South Delta Aquarids	Jul 14-Aug 18	*Jul 28-29

\*(due to Full Moon, visible contact may be hampered)

#### Minor Meteor Activities:

Alpha Lyrids	Jul 9-20	Jul 14-15
July Phoenicids	Jul 9-17	Jul 14-15
Alpha Pisces Australids	Jul 18-Aug 13	Jul 30-31
Sigma Capricornids	Jun 18-Jul 30	Jul 10-20
Tau Capricornids	Jun 27-Jul 29	Jul 12-13
Omicron Draconids	Jul 6-28	Jul 17-18

In the month of JULY, six meter buffs may ALWAYS expect the unexpected. Watch all 6 meter beacons for all possible openings. Remember: This Es season which peaked in June, but watch this month for rare openings as well. High bands 10, 12, 15 and 17 MTRS, propagation will greatly decreased. However, expect 20 MTRS to open longer in both daylight and evening paths due to the lengthened sunlight in the Northern Hemisphere. Seasonal increasing propagation on 30 MTRS however, 40 MTRS will experience spring thunderstorm status and QRN/QRM. Very little will be expected on 80 and 160 MTRS even during the darkness paths.

*Let us now look at the HF bands in general:*

10-12 Meters very few long skip openings during this month of July.

15- Meters, if 10 Meters is open, expect this band to be opened too.

17 Meters will be your second best DX bands. Expect some S-E during the daytime and N-W openings in the late afternoon.

20 Meters will be your BEST band as it continues to improve. Expect evening transpolar opening. The Summer Solstice occurred in June. So days are now beginning to shorten in daylight through September's equinox (21 September '98). World wide DX openings in September will experience equal openings in

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## Death in Iberia

(From Page 5)

ing SCDXC signals.

Juan and Pilar were excellent hosts. Juan's database for EA9IE includes 180,000 entries – all stations

he's worked, perhaps the largest in the world.

From Juan's balcony, he can see four DXCC

countries: Morocco, CN8, Tangier CN2 (deleted), Ceuta EA9 and Gibraltar ZB2.

The trip was winding down.

Back to Spain, to Seville, Lisbon, Fatima (inching on our knees the two-mile causeway to the shrine to pray for great radio conditions), Salamanca and back to Madrid for the return home.

What makes the difference between a good trip/vacation and an outstanding one that you will never forget is visiting ham friends. We may be able to repay Juan and Pilar when they visit us next year. Get the fish ready!



## KH6BZF Reports

(Continued)

both hemispheres. Expect late evening intercontinental and interhemisphere openings are expected as are possible polar paths especially during Sunrise and Sunset periods.

30 Meters will be better and open for great 24-hour DX to somewhere world-wide!

40-meters should remain in fair-to-poor with ever increased summer QRN levels.

80-160 Meter bands are to expect fewer openings. This band will be hampered by QRN static. That's the band rundown for this month. The data to watch are both 27.5-day solar cycle variations and both daily Alpha and K-indices. If you know the solar cycle repetitions, Alpha or A-index and the K-index here is what to expect the propagation to be:

ABOVE NORMAL (AN)	K-INDEX= ZERO TO 2	ALPHA=O TO 7
HIGH NORMAL (HN)	TO 3	8 TO 15
LOW NORMAL (LN)	4	16 TO 29
BELOW NORMAL (BN)	4-5	30 TO 49
DISTRUBED (DIS)	6	50 TO 99
VERY DISTRUBED (VY DIS)	6 TO 9	100 TO 400

The GEOMAG or geomagnetic field is expected to be QUIET between AN and HN. UNSETTLED occurs between HN and LN. AN ACTIVE GEOMAG FIELD occurs at LN. A MINOR Geomagnetic Storm occurs between BN and DIS. A MAJOR STORM occurs at DIS and VY DIS conditions.

Should you have any special questions or want specific questions answered, feel free to contact me via e-mail: leewical@aol.com and I will try to obtain an answer for you. If you wish to write me at my CALLBOOK ADDRESS (CBA) via airmail, please remember to include a SAE plus IRC's for a prompt reply. See you in the DX pileups, in Contests and on 6 Meters....

Best of good DX hunting..... Aloha and Mahalo

Lee, KH6BZF/7J1AAP de "KH6BZF REPORTS"

## For Sale:

Icom IC-27A 2 M Transceiver \$175.00

Kenwood TM-221A 2 M transceiver \$220.00

Antenna Specialist glass mount cellular look-alike 2 M antenna \$25.00

Trunk lip mount 2 M antenna \$20.00

Timewave DSP-9 noise processor with eprom upgrade \$95.00

Heathkit HA-14 Kilowatt Compact with AC and mobile supplies \$375.00

Jack N6UC, 714-544-5369

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## Another Letter From Hell

(Continued)

lasagna, and she keeps looking in the mirror, puffing up her cheeks like Dizzy Gillespie. I found a Greyhound bus schedule under her pillow with Sherman Oaks, California underlined.

Our family doctor over to the HMO, Kryznyzk Pzyznksfnskz, M.D. says we should give her a good flush, but I think it's way too late. We called the Psychic Friends Network, and they said she's going to win the Clearinghouse, so leave her alone.

Anyhoo, you may have thought you have only spread your filth around a little corner of this world, as the Chairman of the Board said, but I'm here to tell you that you sure scrambled Egma, Junior.

Egma Bates

Wonderful Caverns, Wisconsin

### **BULLETin** letter policy:

We don't need 'em.

Leave us alone.

**Membership, New or Renewal** (return to Harvey Shore, 6433 Pat Avenue, West Hills, California 91307)

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## Heard and Worked

by Mark Weiss, K6FG



*Signals don't get to the sunny shores of Southern California like they get everywhere else.*

*Sometimes, a band is open for just a few minutes.*

*Sometimes, a rare country appears at a crazy time or frequency. Here are selected reports from local stations.*

*Send your report for July to the Editor.*

Date	Time	Mode	DX
<b>40</b>			
6/11	1234	CW	FO0MAC*
6/18	1057	CW	FO0MAC*
6/26	1249	CW	HC8/N5KO
<b>30</b>			
6/2	0013	CW	3V8BB*
6/9	0436	CW	FT5XN*
6/11	0400	CW	FO0MAC*
6/18	0353	CW	FO0MAC*
6/22	0341	CW	S07WW*
<b>20</b>			
6/2	0333	TTY	FO5NL
6/2	0415	TTY	SV1ADG
6/2	0423	TTY	JW9PJA*
6/2	0448	TTY	V73GT*
6/2	1340	TTY	JD1YBJ
6/4	0033	TTY	TF3RB
6/4	0044	TTY	9K2HN
6/4	0237	CW	3V8BB*
6/6	1637	TTY	BD7JA
6/8	0327	CW	JY9QJ
6/9	0313	TTY	FO0PAP*
6/9	0443	CW	5B4AGC
6/9	0551	TTY	FO0PAP*
6/10	0138	SSB	FO0MAC*
6/10	0235	TTY	ES7FQ
6/12	1331	TTY	BD7JA
6/13	1645	TTY	UN5PR
6/13	2221	SSB	ON4UN
6/14	0008	TTY	CT98AOZ
6/14	0029	TTY	FM5CD
6/14	0050	SSB	FO0PAP*
6/14	0117	TTY	TF3IRA
6/14	0247	TTY	UT7Z
6/14	0738	TTY	FO0PAP*
6/14	2318	TTY	6W6JX
6/15	0041	TTY	YZ4ED
6/15	0237	TTY	FO0PAP*
6/15	0436	CW	FT5XN*

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## Board Meeting Highlights

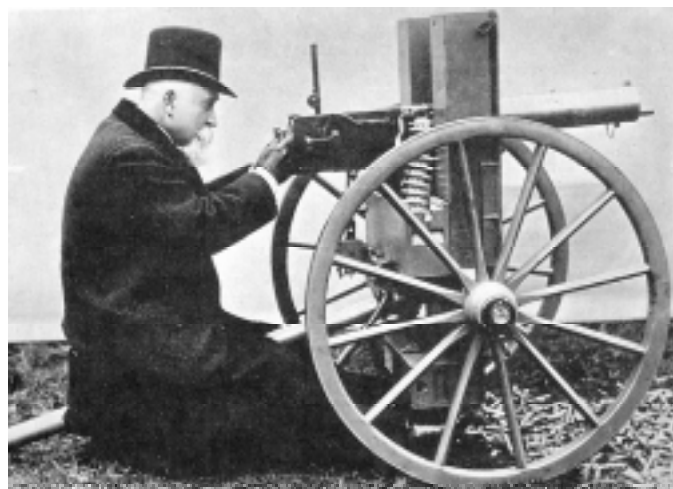
Reported by Melvina Horlick, BULLetin staff writer.

The Southern California DX Club Board of Directors met at the home of Rich and Patricia Bongiorno, WU6T, KD9V and KE6QCF.

- **DX Alert:** Larry, K6RO is seeking a volunteer to supervise the DX Alert.
- **Shakey's Pizza:** Negotiations with the eatery have resulted in the following perquisites for SCDXC members: "Happy Hour" prices will apply to all purchases, simply identify yourself as a DX Club member.
- **Jun's:** Will remain open until six PM on meeting nights.
- **Meeting the month of the DX Convention:** Some members have felt that the monthly meeting has been missed. This is under consideration by the board.

- **Convention income and treasury:** This year's DX convention brought a hefty sum into the club treasury.

Creation of a DX program at the ARRL convention will add to this surplus. Some ideas were discussed regarding the distribution of some of this income. N6KZ and W8DX are investigating the creation of a "Southern California DX Club Scholarship." K6RO has proposed a dual contribution, \$1,000 to the Northern California DX Foundation and



Hiram Maxim Demonstrated his newfangled invention, the "Machine Gun," hoping for a slice of the SCDXC treasury. The board wasn't buying. Machine gun. Hah!

\$1,000 to DX venture(s) involving club members. Further ideas include the creation of awards and contests. The overall aim is to bring visibility and prestige to the club.

- **DXAC Representative:** Jim Zimmerman will contact Vince Thompson, K5VT and ask him to attend a meeting.
- **Volunteerism:** It seems like most of the work is done by a small core group. We need volunteers to take over various tasks including board members and officers for next year, committee chairpersons, etc.
- **The Repeater:** Edgar, N6OU, reports that problems with programming the repeater are due to physical problems on the controller board itself – it's not that he hasn't tried. He is looking into replacing the board (which is not club property!) He asks us to bear with him until September.



## Heard and Worked

(Continued)

6/15	0456	CW	FO0MAC*
6/15	1929	SSB	FO0MAC*
6/18	0102	TTY	FO0PAP*
6/18	1523	TTY	HS0/JA6GIJ
6/18	1720	SSB	S21J
6/20	1747	TTY	XUF2B
6/24	0235	CW	S07WW
6/25	2312	TTY	TL5A
6/27	0124	CW	5N0/OK1AUT
6/27	0515	SSB	FO5QG*
6/27	1418	CW	VR2RS
6/27	1434	CW	VQ9GB
6/28	0611	SSB	DF2PY

### 17

6/6	1901	SSB	EI7BA
6/6	1924	CW	JY8YB
6/6	2307	SSB	D2AI*
6/7	1819	SSB	DS5USH
6/10	0307	SSB	A41LZ
6/10	0331	CW	FO0MAC*
6/13	1932	SSB	HZ1AB
6/13	2150	CW	5B4AGC
6/14	0000	TTY	TF3IRA
6/15	2354	CW	FO0MAC*
6/17	0317	SSB	A41LZ
6/17	1949	SSB	FO0PAP
6/18	0044	CW	SV5/VE3EXY
6/18	0222	SSB	OH3YI
6/19	0502	CW	4X1FQ
6/20	1721	CW	5N0/OK1AUT
6/23	2333	CW	S07WW*
6/28	0046	SSB	JY5HX
6/28	0047	SSB	9H1AL

### 15

6/9	2358	TTY	FO0PAP
6/13	1810	SSB	9K2ZZ
6/17	0250	TTY	FO0PAP*
6/18	0223	CW	FO0MAC*
6/19	2323	CW	T32Z
6/28	2228	SSB	TJ1HP
6/28	2238	SSB	KH0AC

### 12

6/6	2318	SSB	ZL2UW
<b>* QSL Routes</b>			
3V8BB		YT1AD	
D2AI		CT1EGH	
FO5QG		XE1L	
FO0MAC		K8OU	
FO0PAP		K8OU	
FT5XN		F6PEN	
JW9PJA		LB5ME	
S07WW		ON5NT	
V73GT		WF5T	

(Thanks to K6FG, WU6T)

## Ham Puzzle

by Milt, W6RJO



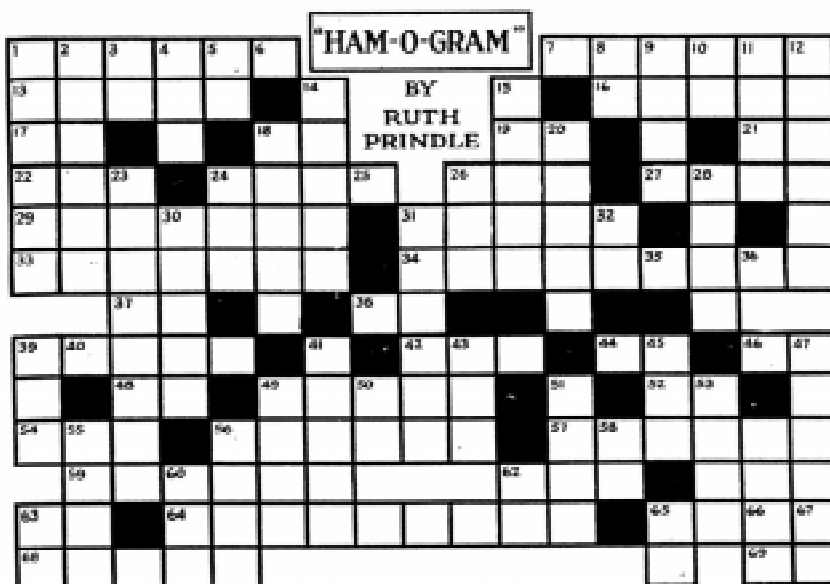
### "Adjustable Hop Yagi"

For Heard at 12,000 miles, the first hop (span) is 6000 miles long, the second is an added 1/3 of 6000 or 6000 + 2000 miles, the third is an added 6000/5 or 6000 + 2000 + 1200 miles, the fourth is 6000/7 or an added 857 miles, the fifth is an added 6000/9 or 666 miles, etc.. As you will figure, he needed eight hops, for a total of about 12,130 miles (within 150 miles of Heard.)

Well, Gang, our only winner this month was Nickolai Ivanovich Lobeshevsky. He gets the Mustang Convertible and a year's supply of Turtle Wax™. Keep trying ...ed.

Here is the July Puzzler. Good luck:

## Radio Cross-Word Puzzle



### ACROSS:

1. Units of capacitance.
7. Reciprocal action, as of inductance.
11. Alternate a.f. signals in superheterodyne receiver.
14. Inductance (symbol).
16. System of matching transmission line to antenna.
17. Listening post (abbr.).
18. General Electric (abbr.).
19. Portugal (prefix).
21. The Farouk (prefix).
22. Type of oscillator-amplifier tube popular several years ago.
24. Insulating covering on wire.
26. Unit of pressure.
27. Electrical dimension.
29. Cassin plastic insulating material.
31. Remote circuit-control device.
33. Wave diode or optoelectronic device.
38. Negative particles of electricity.

32. Laughter.
38. Empty (abbr.).
39. Fundamental harmonic.
41. Capacity (symbol).
42. Undistorted power output.
44. Nothing doing (abbr.).
46. General call.
48. Jan. Masen Island (prefix).
49. Meter for measuring specific gravity (prefix).
50. Finland (prefix).
54. I am being interfered with.
56. Triangometric function.
57. Rotating part of a variable device (abbr.).
59. Antenna.
62. Point along a coil winding to which a connection is made.
63. Broadband (abbr.).
64. Strength fan of vacuum.
65. Schedule (abbr.).
68. Circuit (abbr.).
69. Say (abbr.).

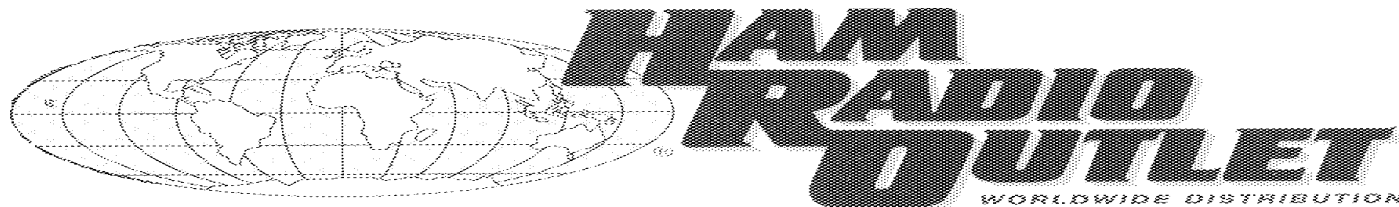
### DOWN:

1. Frequency-discontinuity coupling circuit.
2. Unit of current.
3. Radio amplifier (abbr.).
4. Again (abbr.).
5. From.
6. Switch (symbol).
7. Thousand (symbol).
8. You would (abbr.).
9. Check.
10. You will (abbr.).
11. Smallest physical unit retaining all the original characteristics of an element.
12. Sections of the ionosphere.
14. Connecting wires.
15. Calibration.
16. Third element of a triode vacuum tube (abbr.).
20. Matching the tuning rate of an oscillator to that of the a.f. circuit.
23. Resistor wire.
24. Call of a long distance network hop station.
25. Power (symbol).
26. Ten decibels.
28. Magnetic material.
30. Interference.
31. Connection to a circuit which completes the circuit.
33. Logarithm (prefix).
35. OK.
36. Meter (symbol).
39. Frequency (abbr.).
40. Current (symbol).
41. Unit of frequency.
43. Volume control (abbr.).
44. No (symbol).
45. Dis (prefix).
47. Send more slowly.
49. Form of energy.
50. Day (abbr.).
51. Heintgen tube.
53. Switch lever on a telephone receiver.
55. Frame for mounting standard panels.
56. Type of a.c. wave.
58. Operator (abbr.).
60. Radio inspector (abbr.).
62. Than (abbr.).
63. Broadband (abbr.).
64. Grid plate (internal transmission).
66. And.
67. Day (abbr.).

(Thanks to Maty Weinberg at QST for permission to use this puzzle from the August, 1943 issue.)

(Send your solution to the BULLETIN Editor, email, post, FAX okay)

*The SCDXC thanks the following whose support makes it possible for us to offer an outstanding selection of prizes each month.*



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